



GDOT Publications

Policies & Procedures

Form Word: 2445-1f - Section 156 - GPS Specifications for Conveyance Structures GIS Mapping

Section: Specifications Guidelines

Office/Department: Office of Engineering Services

Reports To: Engineering Services

Contact: 404-631-1000

See [below](#).

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

SUPPLEMENTAL SPECIFICATION

Section 156—GPS Specifications for Conveyance Structures GIS Mapping

156.1 General Description

Perform the items of this work according to this Specification.

This work includes:

- Collecting sub-meter locations and attributes for specified stormwater/drainage-related assets within the project limits.
- Compiling, processing, and submitting the GIS data in accordance with the Department's policies and guidelines.
- Maintaining quality control and quality assurance while performing the work.

156.1.01 Definitions

General Provisions 101 through 150

156.1.02 Related References

A. Standard Specifications

General Provisions 101 through 150

B. Referenced Documents

General Provisions 101 through 150

GDOT Policy: 8075-1-Database Design and Modeling Standard

GDOT Policy: 8075-5-Metadata Registry

GDOT Policy: 8085-1- Geospatial Data Policy and Standards

GDOT Policy: 8085-2- GPS Data Collection Policy

156.1.03 Submittals

General Provisions 101 through 150

156.2 Materials

General Provisions 101 through 150

156.3 Construction Requirements

General Provisions 101 through 150

156.3.01 Personnel

Furnish qualified personnel capable of performing the work in accordance with the Department's above-stated policies and procedures detailed in GDOT Publications on the Department's website.

156.3.02 Accuracy

Ensure that data will be accurate within 1 meter horizontal for all assets. Collect and process data in accordance with the Department's Policies and Procedures detailed in GDOT Publications.

156.3.03 Coordinate System

Submit the data to the Department in accordance with the Department's policies and procedures defined in GDOT Publications. See GDOT Policy 8085-1- Geospatial Data Policy and Standards.

Horizontal coordinate system definition:

Coordinate system name:

*Projected coordinate system name:

NAD_1983_Georgia_Statewide_Lambert

*Geographic coordinate system name:

GCS_North_American_1983

Planar: Map projection: *Map projection name: Lambert Conformal Conic

Lambert conformal conic:

*Standard parallel: 31.416667

*Standard parallel: 34.283333

*Longitude of central meridian: -83.500000

*Latitude of projection origin: 0.000000

*False easting: 0.000000

*False northing: 0.000000

Planar coordinate information:

*Planar coordinate encoding method: coordinate pair Coordinate representation:

*Abscissa resolution: 0.004167 *

Ordinate resolution: 0.004167

*Planar distance units: survey feet

Geodetic model:

*Horizontal datum name: North American Datum of 1983

*Ellipsoid name: Geodetic Reference System 80

*Semi-major axis: 6378137.000000

*Denominator of flattening ratio: 298.257222

Vertical coordinate system definition:

Altitude system definition:

*Altitude resolution: 1.000000

*Altitude encoding method: Explicit elevation coordinate included with horizontal coordinates

156.3.04 Format

Provide data in ESRI ArcGIS 10.2 or newer file-based geodatabase format.

156.3.05 Schema and Metadata

Provide all the data in compliance with database schema and metadata located in GDOT Policy 8075-1-Database Design and Modeling Standard and GDOT Policy 8075-5-Metadata Registry for download.

156.4 Measurement

The work under this contract item is not measured separately for payment.

156.5 Payment

This contract item completed and accepted will be paid at the Lump Sum Price bid, and the payment will be full compensation for all work completed as required by the Department. Any unnecessary work, overruns, costs, etc., resulting from inaccurate data submitted by the Contractor will be deducted from Contractor payments.

Payment will be made under:

Item No. 156	GPS Data Collection and Submittal	Per Lump Sum
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References:

None.

History:

Portland Cement Concrete Whitetopping - Section 453 replaced: 12/02/14;
copied to GDOT Publications v.02.00.00: 03/15/12
Reviewed: 12/2/2014